

**ABSTRACT**

**CONTROLLING A PRESSURE TRANSIENT IN A WELL**

[0039] A system for controlling a dynamic pressure transient in a well during operations to provide fluid communication between the wellbore and adjacent formation. A method includes determining the characteristics of an adjacent formation, selecting a perforating tool for increasing fluid communication, determining a dynamic pressure transient to enhance the quality of the fluid communication and prevent damage, selecting a wellbore fluid to achieve the desired pressure transient, and performing the fluid communication process based on the selected parameters.

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